

What is claimed is:

1. A method to determine when to send a signal,
comprising:

5 receiving a set of durations, the set of durations
including at least two time durations, each duration
corresponding to a respective action signal to be sent
at the end of the respective duration;

10 determining an expiration time corresponding to
each duration;

selecting the expiration time that is first to
occur to provide a selected expiration time;

15 sending the action signal corresponding to the
selected expiration time when the selected expiration
time occurs.

2. The method of claim 1, wherein determining an
expiration time corresponding to each duration includes
determining a received time for each duration.

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3. The method of claim 2, wherein determining an
expiration time corresponding to each duration further
includes adding each duration to its corresponding
received time.

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4. The method of claim 1, wherein selecting the expiration time that is first to occur includes comparing the expiration times to determine which of the expiration times is first to occur.

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5. The method of claim 1, further including determining when the selected expiration time occurs by setting a clock to send a signal at the expiration time.

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6. A method to determine when to send a signal, comprising:

determining a first expiration time and a second expiration time;

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comparing the first expiration time to the second expiration time;

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selecting the first expiration time if the first expiration time is less than the second expiration time, and selecting the second expiration time if the second expiration time is less than the first expiration time, and selecting both the first and second expiration times if the first expiration time is approximately equal to the second expiration time;

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if the first expiration time is not approximately equal to the second expiration time, setting a signal send time approximately equal to the selected one of the

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first expiration time and the second expiration time,
and if the first expiration time is approximately equal
to the second expiration time, setting a signal send
time approximately equal to the first and second

5 expiration time;

determining a start time;

determining a time difference between the signal
send time and the start time;

10 setting a time period approximately equal to the
time difference;

setting a timer to send a call back signal at the
end of the time period;

starting the timer at the start time; and

15 once the timer sends the call back signal, sending
the first action signal if the first expiration time was
selected, and sending the second action signal if the
second expiration time was selected.

7. The method of claim 6, further comprising:

20 receiving a first time duration corresponding to a
first action signal; and

determining a first received time corresponding to
a current time indicated by a clock when the first time
duration was received.

8. The method of claim 7, wherein the first expiration time is approximately equal to the first received time plus the first time duration.

5 9. The method of claim 6, further comprising, once the timer sends the call back signal:

selecting a next expiration time, the next expiration time corresponding to the first expiration time if the first expiration time was not previously
10 selected, and the next expiration time corresponding to the second expiration time if the second expiration time was not previously selected;

determining a new start time;

determining a new time difference between the next
15 expiration time and the new start time;

setting a new time period approximately equal to the new time difference;

setting the timer to send a new call back signal at the end of the new time period; and

20 starting the timer at the new start time.

10. The method of claim 6, further comprising:

checking a first indicator upon sending the first action signal, the first indicator corresponding to
25 whether the first action signal should be sent again;

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and

determining a third expiration time if the first indicator indicates the first action signal should be sent again.

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11. A method to determine when to send a signal,
comprising:

receiving a set of durations, the set of durations including at least two time durations, each duration corresponding to a respective action signal to be sent at the end of the respective duration;

determining a received time for each duration;

determining an expiration time corresponding to each duration to provide a set of expiration times, each expiration time being approximately equal to the corresponding received time plus the corresponding time duration;

comparing the expiration times to determine which
of the expiration times is first to occur;

20 selecting the expiration time that is first to
 occur to provide a selected expiration time;

determining a start time;

determining a time difference between the selected expiration time and the start time;

[illegible]

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    setting a time period approximately equal to the
time difference;

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        setting a timer to send a call back signal at the
end of the time period;

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5      starting the timer at the start time; and

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once the timer sends the call back signal, sending the action signal that corresponds to the selected expiration time.

10 12. The method of claim 11, further comprising;

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        selecting from the set of expiration times the
expiration time that is next to occur;

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determining a new start time;

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        determining a new time difference between the
15    selected expiration time that is next to occur and the
        start time;

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setting a new time period approximately equal to
the new time difference;

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starting the timer at the new start time; and
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20         once the timer sends the call back signal, sending
        the action signal that corresponds to the selected
        expiration time that is next to occur.

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13. The method of claim 11, further comprising adding
25 to the set of expiration times an expiration time

[illegible]

if the second flag indicates an active status,
determining a second expiration time and including the
second expiration time in the set of expiration times;

selecting an expiration time in the set that will
5 occur first, to provide a selected expiration time;

determining a start time;

determining a time difference between the selected
expiration time and the start time;

setting a time period approximately equal to the
10 time difference;

setting a timer to send a call back signal at the
end of the time period;

starting the timer at the start time; and

once the timer sends the call back signal, sending
15 an action signal that corresponds to the selected
expiration time.

16. The method of claim 15, wherein at least one of the
flags corresponding to the selected expiration time is
20 set to an inactive status once the corresponding action
signal is sent.

17. The method of claim 15, wherein the first timing
information further includes a first indicator, and the
25 method further comprises:

if the first indicator is turned off, setting the
5 first flag to an inactive status.

a computer readable program code module to receive a set of durations, the set of durations including at least two time durations, each duration corresponding to a respective action signal to be sent at the end of the respective duration;

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20      a computer readable program code module to select
      the expiration time that is first to occur to provide a
      selected expiration time;
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a computer readable program code module to send the
action signal corresponding to the selected expiration
25 time when the selected expiration time occurs.

20. The method of claim 19, wherein the instructions further have a computer readable program code module to determine a received time for each duration.

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21. The method of claim 20, wherein the instructions further have a computer readable program code module to add each duration to its corresponding received time.

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22. The method of claim 19, wherein the instructions further have a computer readable program code module to compare the expiration times to determine which of the expiration times is first to occur.

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23. The method of claim 19, wherein the instructions further have a computer readable program code module to set a clock to send a signal at the expiration time.

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24. An article of manufacture comprising a computer usable medium having computer readable program code instructions embodied therein to cause a computer to determine when to send a signal, the instructions having:

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a computer readable program code module to determine a first expiration time;

a computer readable program code module to
determine a second expiration time;

a computer readable program code module to compare the first expiration time to the second expiration time;

5 a computer readable program code module to select
the first expiration time if the first expiration time
is less than the second expiration time, and to select
the second expiration time if the second expiration time
is less than the first expiration time, and to select
10 both the first and second expiration times if the first
expiration time is approximately equal to the second
expiration time;

a computer readable program code module to set a
signal send time approximately equal to the selected one
15 of the first expiration time and the second expiration
time if the first expiration time is not approximately
equal to the second expiration time, and to set a signal
send time approximately equal to the first and second
expiration time if the first expiration time is
20 approximately equal to the second expiration time;

a computer readable program code module to
determine a start time corresponding to the current time
indicated by the clock;

[illegible]

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        a computer readable program code module to
determine a time difference between the signal send time
and the start time;

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a computer readable program code module to set a
5 time period of a timer approximately equal to the time
difference so a call back signal is sent at the end of
the time period;

a computer readable program code module to start the timer at the start time; and

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10      a computer readable program code module to send,
      once the timer sends the call back signal, the first
      action signal if the first expiration time was selected,
      and to send the second action signal if the second
      expiration time was selected.

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25. The article of manufacture of claim 24, wherein the instructions further have:

a computer readable program code module to select a next expiration time once the timer sends the call back signal, the next expiration time corresponding to the first expiration time if the first expiration time was not previously selected, and the next expiration time corresponding to the second expiration time if the second expiration time was not previously selected;

[illegible]

a computer readable program code module to
determine a new start time;

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        a computer readable program code module to
        determine a new time difference between the next
5    expiration time and the new start time;

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a computer readable program code module to set a new time period approximately equal to the new time difference; and

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a computer readable program code module to start
10 the timer at the new start time.

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26. The article of manufacture of claim 24, wherein the instructions further have:

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        a computer readable program code module to check a
15  first indicator upon sending the first action signal,
    the first indicator corresponding to whether the first
    action signal should be sent again;

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a computer readable program code module to
determine a third expiration time if the first indicator
20 indicates the first action signal should be sent again.

27. An article of manufacture comprising a computer usable medium having computer readable program code instructions embodied therein to cause a computer to

determine when to send a signal, the instructions
having:

5 a computer readable program code module to receive
a set of durations, the set of durations including at
least two time durations, each duration corresponding to
a respective action signal to be sent at the end of the
respective duration;

10 a computer readable program code module to
determine an expiration time corresponding to each
duration to provide a set of expiration times;

a computer readable program code module to compare
the expiration times to determine which of the
expiration times is first to occur;

15 a computer readable program code module to select
the expiration time that is first to occur to provide a
selected expiration time;

a computer readable program code module to
determine a start time;

20 a computer readable program code module to
determine a time difference between the selected
expiration time and the start time;

25 a computer readable program code module to set a
time period of a timer approximately equal to the time
difference, the timer being capable of sending a call
back signal at the end of the time period;

a computer readable program code module to start the timer at the start time; and

a computer readable program code module to send, once the timer sends the call back signal, the action
5 signal corresponding to the selected expiration time.

28. The article of manufacture of claim 27, wherein the instructions further have:

a computer readable program code module to select
10 from the set of expiration times the expiration time that is next to occur;

a computer readable program code module to determine a new start time;

a computer readable program code module to
15 determine a new time difference between the selected expiration time that is next to occur and the start time;

a computer readable program code module to set the time period approximately equal to the new time
20 difference;

a computer readable program code module to start the timer at the new start time; and

a computer readable program code module to send, once the timer sends the call back signal, the action

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signal corresponding to the selected expiration time
that is next to occur.

29. The article of manufacture of claim 27, wherein
5 the instructions further have a computer readable
program code module to add to the set of expiration
times an expiration time approximately equal to the time
the action signal was sent plus the corresponding
duration.

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30. The article of manufacture of claim 27, wherein
the instructions further have:

a computer readable program code module to check an
indicator corresponding to the sent action signal to
15 determine whether the indicator is turned on or turned
off;

a computer readable program code module to add to
the set of expiration times an expiration time
approximately equal to the time the action signal was
20 sent plus the corresponding duration, if the indicator
is turned on.

31. An article of manufacture comprising a computer
usable medium having computer readable program code
25 instructions embodied therein to cause a computer to

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determine when to send a signal, the instructions
having:

a computer readable program code module to receive first timing information corresponding to a first action signal, the first timing information including a first duration and a first flag;

a computer readable program code module to determine a first expiration time, if the first flag indicates an active status, and to include the first expiration time in a set of expiration times to be considered;

a computer readable program code module to receive
second timing information corresponding to a second
action signal, the second timing information including a
15 second duration and a second flag;

a computer readable program code module to determine a second expiration time, if the second flag indicates an active status, and to include the second expiration time in the set of expiration times;

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20         a computer readable program code module to select
        an expiration time in the set that will occur first, to
        provide a selected expiration time;

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a computer readable program code module to
determine a start time;

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a computer readable program code module to set a time period of a timer approximately equal to a difference between the selected expiration time and the start time, the timer being capable of sending a call
5 back signal at the end of the time period;

a computer readable program code module to start the timer at the start time; and

a computer readable program code module to send, once the timer sends the call back signal, action
10 signals corresponding to the selected expiration time.

32. The article of manufacture of claim 31, wherein the instructions further have a computer readable program code module to set at least one of the flags
15 corresponding to the selected expiration time to an inactive status once the corresponding action signal is sent.

33. The article of manufacture of claim 31, wherein the first timing information further includes a first
20 indicator, and the instructions further have:

a computer readable program code module to determine whether the indicator is turned on or turned off;

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34. The article of manufacture of claim 31, wherein the first timing information further includes a first indicator, and the instructions further have:

5 a computer readable program code module to determine whether the first indicator is turned on or turned off; and

a computer readable program code module to set the first flag to an inactive status if the first indicator is turned off.

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